

PATENT APPLICATION

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO. LEX-0160-USA

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Novel Human Ion Channel Protein and Polynucleotides Encoding the Same

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as US Application Serial No. or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

| COUNTRY | APPLICATION NUMBER | DATE FILED | PRIORITY CLAIMED UNDER 35 U.S.C. 119 |
|---------|--------------------|------------|--------------------------------------|
| | | | YES: _____ NO: _____ |
| | | | YES: _____ NO: _____ |

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

| APPLICATION SERIAL NUMBER | FILING DATE |
|---------------------------|-------------|
| 60/194,255 | 4/3/2000 |
| | |

U.S. Priority Claim

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POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Lance K. Ishimoto, Reg. No. 41866

Send Correspondence to:

Lance K. Ishimoto
Lexicon Genetics Incorporated
4000 Research Forest Drive
The Woodlands, TX 77381

Direct Telephone Calls To:

Lance K. Ishimoto
(281) 863-3333

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Yi Hu

Citizenship: People's Rep. China

Residence: 333 Holly Creek Ct. #203, The Woodlands, TX 77381

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Date

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)

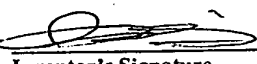
ATTORNEY DOCKET NO. LEX-0160-USA

Full Name of Inventor: James Alvin Kieke

Citizenship: USA

Residence: 9202 Restover Lane, Houston, TX 77064-2626

Post Office Address: Same


Inventor's Signature

6/01/01
Date

Full Name of Inventor: C. Alexander Turner, Jr.

Citizenship: USA

Residence: 67 Winter Wheat Place, The Woodlands, TX 77381

Post Office Address: Same

Inventor's Signature

Date

Full Name of Inventor: Michael C. Nehls

Citizenship: Germany

Residence: Paul-Keller-Strasse 6, Stockdorf, Germany 82131

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Full Name of Inventor: Glenn Friedrich

Citizenship: Canada

Residence: c/o Breland & Breland, Houston, TX 77004

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Inventor's Signature

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Full Name of Inventor: Brian Zambrowicz

Citizenship: USA

Residence: 18 Firethorne Place, The Woodlands, TX 77382

Post Office Address: Same

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Date

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Full Name of Inventor: Yi Hu

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Date

Full Name of Inventor: C. Alexander Turner, Jr.

Citizenship: USA

Residence: 67 Winter Wheat Place, The Woodlands, TX 77381

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6-8-01
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Date

APOSTILLE

(Conventi e La Haye du 5 octobre 1961)

1. Land: Bundesrepublik Deutschland

Diese öffentliche Urkunde

2. ist unterschrieben von Dr. Vossius

Notar

3. in seiner Eigenschaft als

4. sie ist versehen mit dem ~~Stempel~~/Siegel des ~~Stempels~~ des
Notars Dr. Oliver Vossius in München

München

Bestätigt

31. Mai 2001

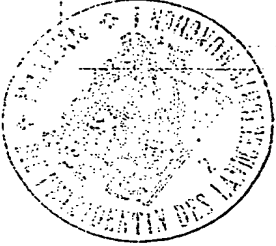
5. in 6. am

7. durch die Präsidentin des Landgerichtes München I
910 a

8. unter Nr.

9. ~~XXXXX~~ Stempel/Siegel

10. Unterschrift



Edda Huther

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München

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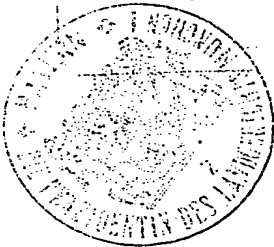
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8. unter Nr.

9. ~~Stempel~~/Siegel

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Edda Huther

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Lexicon Genetics Incorporated

a corporation organized under the laws of the state of as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

Novel Human Ion Channel Protein and Polynucleotides Encoding the Same

described in an application for Letters Patent of the United States, identified as Attorney Docket No. LEX-0160-USA, at Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, and filed on 4/3/2001, as Application Serial No. 09/825,147, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Lance K. Ishimoto, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our name(s) on the day and year set forth below.

[Signature]
Inventor (signature)

6/28/01
DATE

Yi Hu
(Inventor's Typed Name)

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this 28th day of June, 2001, before me personally came the above named Yi Hu who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Michelle Klein
NOTARY PUBLIC

My Commission Expires: 2/13/05

Inventor (signature)

DATE

James Alvin Kieke
(Inventor's Typed Name)

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this _____ day of _____, before me personally came the above named James Alvin Kieke who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

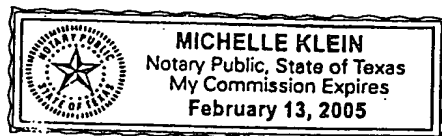
C. Alexander Turner, Jr.
(Inventor's signature)

DATE

C. Alexander Turner, Jr.
(Inventor's Typed Name)

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this 10th day of July, 2001, before me personally came the above named C. Alexander Turner, Jr. who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Michelle Klein

NOTARY PUBLIC

My Commission Expires: 2/13/05

Inventor (signature)

DATE

Michael C. Nehls
(Inventor's Typed Name)

STATE OF)
) SS
COUNTY OF)

On this _____ day of _____, before me personally came the above named Michael C. Nehls who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

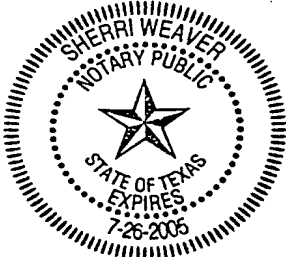
Inventor (signature)

DATE

Glenn Friedrich
(Inventor's Typed Name)

STATE OF Texas)
COUNTY OF Harris) SS

On this 8th day of June, 2001, before me personally came the above named Glenn Friedrich who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Sherri Weaver
NOTARY PUBLIC

My Commission Expires: 7/26/05

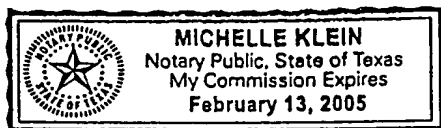
Inventor (signature)

DATE

Brian Zambrowicz
(Inventor's Typed Name)

STATE OF TEXAS)
COUNTY OF MONTGOMERY) SS

On this 20th day of June, 2001, before me personally came the above named Brian Zambrowicz who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Michelle Klein
NOTARY PUBLIC

My Commission Expires: 2/13/05

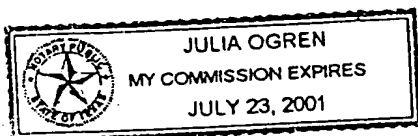
Inventor (signature)

DATE

Arthur T. Sands
(Inventor's Typed Name)

STATE OF TEXAS)
COUNTY OF MONTGOMERY) SS

On this 21st day of June, 2001, before me personally came the above named Arthur T. Sands who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Julia Ogren
NOTARY PUBLIC

My Commission Expires: 7/23/01

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Lexicon Genetics Incorporated

a corporation organized under the laws of the state of as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

Novel Human Ion Channel Protein and Polynucleotides Encoding the Same

described in an application for Letters Patent of the United States, identified as Attorney Docket No. LEX-0160-USA, at Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, and filed on 4/3/2001, as Application Serial No. 09/825,147, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Lance K. Ishimoto, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our name(s) on the day and year set forth below.

Inventor (signature)

DATE

Yi Hu
(Inventor's Typed Name)

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this _____ day of _____, before me personally came the above named Yi Hu who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

Inventor (signature)

DATE

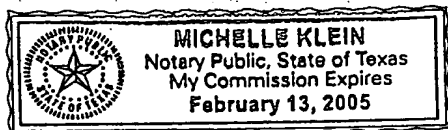
James Alvin Kieke
(Inventor's Typed Name)

STATE OF TEXAS)

) SS

COUNTY OF MONTGOMERY)

On this 21st day of May June, 2001, before me personally came the above named James Alvin Kieke who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Michelle Klein
NOTARY PUBLIC

My Commission Expires: 2/13/05

Inventor (signature)

DATE

C. Alexander Turner, Jr.
(Inventor's Typed Name)

STATE OF TEXAS)

) SS

COUNTY OF MONTGOMERY)

On this _____ day of _____, before me personally came the above named C. Alexander Turner, Jr. who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

Inventor (signature)

DATE

Michael C. Nehls
(Inventor's Typed Name)

STATE OF)

) SS

COUNTY OF)

On this _____ day of _____, before me personally came the above named Michael C. Nehls who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

DATE _____

STATE OF)
) SS
COUNTY OF)

On this _____ day of _____, _____, before me personally came the above named Glenn Friedrich who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

DATE _____

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this _____ day of _____, _____, before me personally came the above named Brian Zambrowicz who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

DATE _____

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this _____ day of _____, _____, before me personally came the above named Arthur T. Sands who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

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a corporation organized under the laws of the state of as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

Novel Human Ion Channel Protein and Polynucleotides Encoding the Same

described in an application for Letters Patent of the United States, identified as Attorney Docket No. LEX-0160-USA, at Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, and filed on 4/3/2001, as Application Serial No. 09/825,147, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

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IN WITNESS WHEREOF, we have hereunto signed our name(s) on the day and year set forth below.

Inventor (signature)

DATE

Yi Hu

(Inventor's Typed Name)

STATE OF TEXAS)
) SS
COUNTY OF MONTGOMERY)

On this _____ day of _____, _____, before me personally came the above named Yi Hu who is personally known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

(signature)

DATE

Alvin Kieke

's Typed Name)

OF TEXAS)
) SS
Y OF MONTGOMERY)

_____ day of _____, _____, before me personally came the above named James Alvin Kieke who is personally
proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged
that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires: _____

(signature)

DATE

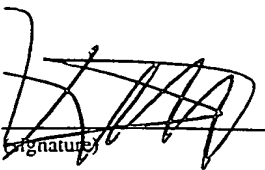
C. Alexander Turner, Jr.

's Typed Name)

OF TEXAS)
) SS
Y OF MONTGOMERY)

_____ day of _____, _____, before me personally came the above named C. Alexander Turner, Jr. who is personally
proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged
that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires: _____



(signature)

5/25/01
DATE V 1 2 3 4

Michael C. Nehls

's Typed Name)

OF)
) SS
Y OF)

_____ day of _____, _____, before me personally came the above named Michael C. Nehls who is personally known
to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me
that he executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires: _____

ator (signature)

DATE

Glenn Friedrich

entor's Typed Name)

ATE OF)
UNTY OF) SS

this _____ day of _____, before me personally came the above named Glenn Friedrich who is personally known
proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me
he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

inventor (signature)

DATE

Brian Zambrowicz

Inventor's Typed Name)

STATE OF TEXAS)
COUNTY OF MONTGOMERY) SS

On this _____ day of _____, before me personally came the above named Brian Zambrowicz who is personally
known or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged
to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

Inventor (signature)

DATE

Arthur T. Sands

(Inventor's Typed Name)

STATE OF TEXAS)
COUNTY OF MONTGOMERY) SS

On this _____ day of _____, before me personally came the above named Arthur T. Sands who is personally known
or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me
that he/she executed the same of his/her own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: _____

File No. V 1234/2001
V

I hereby certify that the above are the true signatures subscribed in my presence of

Mr. Dr. Michael Nehls,
born 10/29/1961,
of Paul-Keller-Strasse 8, 82131 Stockdorf (Germany),
personally known to me.

As stated, the notary, his partner and his deputy were not active on behalf of the deponents off the limits of their professional duties.

Munich, this 05/25/2001



Dr. Vossius, notary

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Land: Bundesrepublik Deutschland

Diese öffentliche Urkunde

2. ist unterschrieben von Dr. Vossius

3. in seiner Eigenschaft als Notar

4. sie ist versehen mit dem ~~XXXXX~~ Siegel des ~~XXXXX~~
Notars Dr. Oliver Vossius in München

München Bestätigt 31. Mai 2001

5. in 6. am

7. durch die Präsidentin des Landgerichtes München I
910 a

8. unter Nr.

9. ~~XXXXX~~ Siegel 10. Unterschrift



Edna Huthner
Edna Huthner